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EXAMI	NER
RAO, ANAND S	HASHIKANT
ART UNIT	PAPER NUMBER
2613	115
	ART UNIT

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	09/470,299	YEO ET AL.9
	Examiner	Art Unit
	Andy S. Rao	2613
The MAILING DATE of this comm Period for Reply	nunication appears on the cover sheet	with the correspondence address
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU - Extensions of time may be available under the provisi after SIX (6) MONTHS from the mailing date of this co. - If the period for reply specified above is less than third. - If NO period for reply is specified above, the maximur. - Failure to reply within the set or extended period for ro. - Any reply received by the Office later than three mont earned patent term adjustment. See 37 CFR 1.704(b) Status	JNICATION. ions of 37 CFR 1.136(a). In no event, however, may ommunication. by (30) days, a reply within the statutory minimum of the statutory period will apply and will expire SIX (6) Meply will, by statute, cause the application to become the after the mailing date of this communication, ever	a reply be timely filed thirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
1) Responsive to communication(s)) filed on <u>24 March 2003</u> .	
2a)⊠ This action is FINAL .	2b)☐ This action is non-final.	
	tion for allowance except for formal n actice under <i>Ex parte Quayle</i> , 1935 (natters, prosecution as to the merits is C.D. 11, 453 O.G. 213.
4)⊠ Claim(s) <u>1,3-9,11-17 and 19-24</u> i	s/are pending in the application.	
	s/are withdrawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1,3-9,11-17 and 19-24</u> is	s/are rejected.	•
7) Claim(s) is/are objected to	-	
8) Claim(s) are subject to res		
Application Papers	4	
9) ☐ The specification is objected to by	the Examiner.	
10) The drawing(s) filed on is/ai	re: a)⊡ accepted or b)⊡ objected to by	y the Examiner.
Applicant may not request that any	objection to the drawing(s) be held in abo	eyance. See 37 CFR 1.85(a).
11) The proposed drawing correction f	iled on is: a) \square approved b) \square	disapproved by the Examiner.
If approved, corrected drawings are	required in reply to this Office action.	
12)☐ The oath or declaration is objected	I to by the Examiner.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a cla	im for foreign priority under 35 U.S.C	C. § 119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None o	f:	
1. Certified copies of the prior	ity documents have been received.	
2. Certified copies of the prior	ity documents have been received in	Application No
 3. Copies of the certified copie application from the Interest * See the attached detailed Office ac 	es of the priority documents have bee ernational Bureau (PCT Rule 17.2(a)) ction for a list of the certified copies no).
14) ☐ Acknowledgment is made of a clain		
	language provisional application has	been received.
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review Information Disclosure Statement(s) (PTO-1449)	v (PTO-948) 5) ☐ Notice of	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)
6. Patent and Trademark Office FO-326 (Rev. 04-01)	Office Action Summary	Part of Paper No. 15

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DETAILED ACTION

Response to Arguments

- 1. Applicants' arguments filed with respect to claims 1, 3-9, 11-17, and 19-24 as filed in Paper 14 on 3/24/03 have been fully considered but they are not persuasive.
- 2. Claims 1, 3-9, 11-17, and 19-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Andrew et al., (hereinafter referred to as "Andrew") in view of Akiwumi-Assani et al., (hereinafter referred to as "Akiwumi-Assani"), as was set forth in the Office Action of Paper 11 as mailed on 11/18/02.
- 3. The Applicants present three arguments contending the Examiner's rejection of claims 1, 3-9, 11-17, and 19-24 rejected under 35 U.S.C. 103(a) as being unpatentable over Andrew et al., (hereinafter referred to as "Andrew") in view of Akiwumi-Assani et al., (hereinafter referred to as "Akiwumi-Assani"), as was set forth in the Office Action of Paper 11 as mailed on 11/18/02. However, after a careful consideration of the arguments presented, and further analysis of the references, the Examiner must respectfully disagree and maintain the grounds of rejection for the reasons that follow.

Firstly, the Applicants argue that the primary Andrew references fails to discloses "at least one independent slice to be decoded by the processors in parallel..." (Paper 14: page 6, lines 13-20; page 7, lines 1-2). The Examiner respectfully disagrees. It is noted that Andrew does disclose *parallel processing* in horizontal rows (Andrew: column 7, lines 35-52), where this parallel processing is not just restricted to encoding as purported by the Applicants (Paper 14: page 7, lines 6-8), but is also executable with regards to the mentioned decoding as well (Andrew: column 5, lines 10-15), especially since Andrew discloses local decoding modules in

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thrust of the reference is centered around encoding, the fact that the reference acknowledges the corollary decoding processing with the stated purpose of efficient reproduction of the digitized images for use in conjunction with the encoding process makes to decoding process either a logical extension of the encoding process, or an obvious modification to the Andrew reference that one of ordinary skill in the art would readily arrive at from a casual analysis of the incorporated MPEG decoding specification (Andrew: column 1, lines 20-35; column 5, lines 10-22). Accordingly, the Examiner maintains that this feature is met.

4. Secondly, the Applicants argue that the primary Andrew references fails to discloses "at least one independent slice to be decoded by the processors in parallel..." as it pertains to the slice being a unit (Paper 14: page 6, lines 13-20; page 7, lines 1-2). The Examiner concurs, but notes that with the suggestion to analyze other sources of MPEG literature (Andrew: column 1; lines 20-35; column 5, lines 10-22), one of ordinary skill in the art would arrive at the well-known conclusion that slice processing is a basic tenet of MPEG processing, and further since Andrew's horizontal row parallel processing implementation can have the processing units adaptable to desired dimensions (Andrew: column 7, lines 65-68), such as the dimensions of a slice, one of ordinary skill in the art would find it obvious to size the Andrew processing units to correspond to slices, in order to regulate the processing power of the DSPs in accordance with the MPEG data (Andrew: column 7, lines 35-45). However, even so, the Examiner has relied upon the secondary reference for disclosure of processing of slices, and one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re*

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Merck & Co., 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). It is noted that the secondary Akiwumi-Assani reference discloses slice processing (Akiwumi-Assani: column 4, lines 25-35) in a decoding environment (Akiwumi-Assani: column 5, lines 30-65), and thus, one of ordinary skill in the art would find the combination with the Andrew reference more that tenable for the reasons as stated by the Examiner in the previous office action. Accordingly, the Examiner maintains that the feature is met.

Lastly, the Applicants argue that the secondary reference fails to disclose "slice parsing by multiple processors in parallel..." (Paper 7: page 7, lines 17-20; page 8, lines 1-20), as in the claims. The Examiner respectfully disagrees. It is noted that while the decode modules may not receive the parsed slices are the same time, that also means that they may not finish the slice decoding at the same instant, since some slices might be more detailed than others and might take longer to decode (Akiwumi-Assani: column 4, lines 35-42). But identical starting and ending processing times, does not define parallel processing. Rather the ability to have separate decoders concurrently process information in parallel for an instant of time is parallel processing. It is noted that the reference discloses dynamically allocation of the parallel processing power of the decoder modules based on the slice complexities (Akiwumi-Assani: column 4, lines 45-55). Furthermore, the Examiner notes that each of four Andrew DSPs would incorporate a slice parser, and thus not have to suffer a wait time for decoding processing and thus avoid the down time of a decoder as it waits to receive slices as discussed by the Applicants (Paper 14: page 7, lines 1-6). Accordingly, the Examiner maintains that this limitation is met, as well.

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Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy S. Rao whose telephone number is (703)-305-4813. The examiner can normally be reached on Monday-Friday 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris S. Kelley can be reached on (703)-305-4856. The fax phone numbers for the organization where this application or proceeding is assigned are (703)-308-6606 for regular communications and (703)-308-6606 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-305-4700.

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Andy S. Rao Primary Examiner Art Unit 2613

ANDY RAO PRIMARY EXAMINER

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